If it takes 4 men 6 hours to repair a road, how long will it take 9 men to do the job if they work at the same rate?

$$\frac{4}{6} = \frac{9}{t} \qquad 4t = 54$$

$$\frac{4t}{4} = \frac{54}{4}$$

$t = 13.5$ hours?

$9 \div 4 = 2.25$

$6 - 2.25 = 3.75$ hours

$4 \times 6 = 24 \div 9 = 2.6$ hrs

$4 \div 6 = 0.66$ per person

$0.60 \times 9 = 6$ hrs.